

CLAIMS

1. A ceramic sheet having not more than 5 defects in an area having a length of 30 mm or less, the defect being detected based on an image obtained with a charge coupled device (CCD) camera.

2. A ceramic sheet according to claim 1, wherein the ceramic sheet is used for solid electrolyte, and has an area of 100cm^2 or larger and a thickness of 0.3mm or smaller.

3. A ceramic sheet according to claim 2, wherein the solid electrolyte includes zirconia having yttria.

4. A ceramic sheet according to any one of claims 1 to 3, wherein the defect is a flaw or foreign matter having an area of 0.1mm^2 or larger.

5. A method for producing a ceramic sheet, comprising steps of:

sandwiching a green sheet to be baked by spacers; and

baking the green sheet to be baked while being sandwiched,

wherein the spacer is a green sheet or a calcined sheet comprising spherical ceramic particles having an average particle diameter of 0.1 to less than $5\mu\text{m}$ as a main component.

6. A method for producing a ceramic sheet according to claim 5, wherein the content of the spherical ceramic particles is 80 wt% or larger with respect to the weight of the total ceramics contained in the spacer.

7. A method for producing a ceramic sheet according to claim 5 to 6, wherein the spacer is a green sheet or a calcined sheet having a sintering temperature of 50 to 300°C higher than the sintering temperature of green sheet to be baked.

8. A method for producing a ceramic sheet according to claims 5 to 7, wherein when the spacer is a green sheet, the spacer is calcined into a porous sheet having a porosity of 5 to 60% during the step of baking the green sheet to be baked to produce the ceramic sheet.

9. A green sheet for use as a spacer in producing the ceramic sheet of any one of claims 1 to 4, the green sheet including ceramic particles 80 wt% or more of which are spherical ceramic particles having an average particle diameter of 0.1 to less than 5 μm .

10. A calcined sheet for use as a spacer in producing the ceramic sheet of any one of claims 1 to 4, the green sheet including ceramic particles 80 wt% or more of which are spherical ceramic

particles having an average particle diameter of 0.1 to less than 5 μ m.

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